

Decimals Test – Review Sheet ~~KEY~~

- Write in word form. 26.053 twenty-six and fifty-three thousandths
- Write in standard form. Seventeen and twenty-five hundred-thousandths. 17.00025
- Compare using $<$, $>$ or $=$.

$$5.01 < 5.1 \quad 3.61 = 3.610 \quad 24.7878 < 24.7887$$

- Order from least to greatest. 7.090, 7.125, 7.375, 7.036, 7.735, 7.215

$$7.036, 7.090, 7.125, 7.215, 7.375, 7.735$$

- Evaluate the expression $2x - y$ when $x = 5.6$ and $y = 0.34$

$$\begin{array}{r} 2(5.6) - 0.34 \\ 11.2 - 0.34 \\ \hline 10.86 \end{array}$$

- Write a number sentence to illustrate each of the following properties:

Associative of Multiplication and Addition: $(3.2 \times 6.4) \times 21 = 3.2 \times (6.4 \times 21)$
 $(3.2 + 6.4) + 21 = 3.2 + (6.4 + 21)$

Commutative of Multiplication and Addition: $4.5 \times 3.4 = 3.4 \times 4.5$
 $21.3 + 6.8 = 6.8 + 21.3$

Distributive: $4(1.2 + 7) = 4(1.2) + 4(7)$

- Find the estimated sum using front end estimation. Then find the real sum.
What is the difference between the two?

$$4.25 + 33.06 + 3.78$$

4.25	4.25	41.09
33.06	33.06	- 41
<u>3.78</u>	<u>+ 3.78</u>	<u>0.09</u>
40 + 1 = 41	41.09	

- Find the area and perimeter of a rectangle with a length of 2.5cm and a width of 1.25cm.

$$\begin{array}{l} \text{Area} = 3.125 \text{ sq. cm,} \\ \text{Perimeter} = 7.5 \text{ cm} \end{array}$$

9. Solve using the distributive property – show all steps: $4(1.4 - 1.03)$

$$\begin{array}{r} 4(1.4) - 4(1.03) \\ 5.6 - 4.12 \\ 1.48 \end{array}$$

10. Use mental math and the distributive property to solve, show all steps: $8(34)$

$$\begin{array}{r} 8(30 + 4) \\ 240 + 32 \\ 272 \end{array}$$

11. Round this number to the nearest hundred thousand's place, then write that rounded number in scientific notation. Finally, write the rounded number as a decimal number of millions.

$$3,457,888 \quad 3,500,000 \quad 3.5 \times 10^6 \quad 3.5 \text{ million}$$

12. Write in scientific notation. $0.00000000143 \quad 1.43 \times 10^{-9}$

13. Round each decimal to the leading digit.

$$0.0000043 = 0.000004 \quad 0.000006523 = 0.000007$$

14. Estimate the following: $28.02 + 14.16 \quad 114.76 - 89.123 \quad 7.765 \times 11.032$

$$\begin{array}{r} 28 + 14 \\ 42 \end{array}$$

$$\begin{array}{r} 115 - 89 \\ 26 \end{array}$$

$$\begin{array}{r} 8 \times 11 \\ 88 \end{array}$$

15. Round to the nearest hundredth. $345.999 \quad 346.00$